

State of California - The Resources Agency
Department of Fish and Game
Marine Resources Region
Long Beach, California

INSHORE FISHERIES HABITAT EVALUATION AND MONITORING PROGRAM
CRUISE REPORT 71-KB-3

Prepared by Daniel Gotshall

Vessel: KELP BASS

Dates: April 14, 15, 1971.

Locality: Inshore waters off Santa Ana River and Sunset Beach.

Purpose: Conduct ecological surveys to:

1. Estimate the number and diversity of animal and plant life at each station (arc method).
2. Describe the physical conditions, including substrate type and water temperature and clarity.
3. Collect bottom samples at each station to determine presence and diversity of small benthic epifauna and infauna not observed by divers.
4. Conduct vertical plankton tows.
5. Take photographs to provide permanent visual record.

Operations: Scuba divers conducted arc type surveys and recorded physical conditions. Benthic samples were collected with a 1/10m² pohnar grab. Vertical plankton hauls were made with a 18 cm diameter plankton net with 62-micron mesh.

Results: Three stations were occupied near the Santa Ana River outfalls. Pohnar grabs and plankton samples were collected at all three stations. These samples are now being sorted for species identification.

Four stations were completed off Sunset Beach, two repeat stations and two new stations. Scuba divers could not conduct arc type surveys because of zero visibility but were able to collect polychaete samples and core samples. In addition pohnar grabs and vertical plankton hauls were made. All of the samples collected are being sorted. Surface waters were discolored both up coast and down coast from the beach where dredge spoils were being deposited. Heavy to light amounts of silt were observed on the bottom at all diving stations. Silt was not present at these stations before the dredging began.

Personnel: M. Mazarovich, Vessel Captain
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R. Moore, Biologist - April 15
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